

TIMOFEEV, A.B., kandidat tekhnicheskikh nauk.

~~Optimal cross-section form of toroidal coils. Trudy MAI no.66;~~
42-54 '56. (MLRA 9:11)
(Electric coils)

1(1); 28(1) P.3 PHASE I BOOK EXPLOITATION SOV/3180

Moscow. Aviationsionnyy institut imeni Sergo Ordzhonikidze

Elektricheskiye tsepi i elementi avtomaticheskikh ustroystv;
sbornik statey. (Electric Circuits and Components of Automatic
Systems; Collection of Articles) Leningrad, Sudpromgiz, 1958.
86 p. (Series: Its; Trudy, vyp. 102) Errata slip inserted.
5,100 copies printed.

Sponsoring Agency: U.S.S.R. Ministerstvo vysshego obrazovaniya.

Resp. Ed.: G.I. Atabekov; Ed. (Title page): G.I. Atabekov,
Doctor of Technical Sciences, Professor; Ed. (Inside book):
V.S. Chichkanova; Tech. Ed.: R.K. Tsal.

PURPOSE: This collection of articles is intended mainly for persons
engaged in problems of electrical engineering and automation
in aviation.

COVERAGE: The collection contains articles dealing with the analysis

Card 1/7

Electric Circuits (Cont.)

SOV/3180

and design of components of automatic control systems and also with methods of calculating the parameters of the "two wires-frame" aircraft system. The articles are based on the work carried out in 1956 and 1957 by the staff of the Department of Theoretical Electrical Engineering of MAI. This work is characterized by two basic approaches: 1) theoretical and experimental investigation and development of methods of designing the components of automatic control systems and electrical systems of aircraft, 2) theoretical development of methods of calculating electric circuits. Most of the articles in this collection are a continuation of works published in two preceding collections by the above Department (Trudy MAI, 1956, Nr 66 and 1957, Nr 85, Oborongiz). No personalities are mentioned. References follow most articles.

TABLE OF CONTENTS:

Foreword	4
Rakhmanov, V.F., Engineer. Comparison of Frequency Response Characteristics of Low-frequency Cascade Amplifiers With a Common Emitter and a Common Cathode	5
Card 2/7	

Electric Circuits (Cont.)

SOV/3180

The author compares theoretically obtained amplitude- and phase-frequency characteristics of a cascade amplifier with common cathode and of a cascade amplifier with common emitter. He finds that these characteristics differ sharply for both types of cascade amplifiers and explains that this difference is caused by the fact that the coefficient (D) for the negative current feedback in the cathode circuit equals zero, while in the emitter circuit $D \gg Q$. The author also compares theoretically obtained curves with those obtained experimentally and finds them in complete qualitative agreement and satisfactory quantitative agreement.

Bibliography

19

Timofeyev, A.B., and V.G. Ter-Zakharyan, Candidates of Technical Sciences. Finding the Optimum Number of Turns of a Current Transformer

20

On the basis of some considerations concerning a simplified vector diagram of a current transformer, the authors obtain simple formulas which help to find with sufficient accuracy

Card 3/7

Electric Circuits (Cont.)

SOV/3180

the optimum number of turns when operating current and resistance of the relay are known..

Ter-Zakharyan, V.G. Candidate of Technical Sciences. Grapho-analytical Method of Investigating a "Current Transformer-Relay" System

The method suggested by the author may be employed in designing ²⁴ relay protection circuits for aircraft. According to the author, this method does not provide for an accurate quantitative accounting of all effects occurring in the system but makes possible a qualitative evaluation of the designed equipment and the efficient selection of parameters close to the optimal.

Bibliography

33

Kamenskiy, A.V. and V.G. Ter-Zakharyan, Candidates of Technical Sciences. Summators of Three-phase Current

34

The authors tabulate values of the proportionality factor as a function of the transformation ratio for various types of summators. In another table the authors present elementary Card 4/7

Electric Circuits (Cont.)

SOV/3180

circuits of some summators with rectangular magnetic circuits and calculations of their sensitivity. They discuss the characteristic properties of several types of summators and present a method of testing them.

Istratov, V.N., Candidate of Technical Sciences. Electrical Parameters and Calculation of the Transverse Asymmetry of a Two-wire Three-phase Aircraft Electrical "Two-Wire-Frame" System
The author investigates the electrical parameters of an asymmetric circuit for various cases of transverse asymmetry and finds their symmetrical components for generator currents. 43

Bibliography

56

Kamenskiy, A.V., Candidate of Technical Sciences. Electrical Parameters of a "Two-Wire-Frame" System
The author presents methods of calculating the following parameters: wire resistance, average values of wire resistance per phase, self-impedances and mutual impedances of separate phases and circuits ("wire-aircraft skin"). He also 57

Card 5/7

Electric Circuits (Cont.)

SOV/3180

presents a method of finding resistances experimentally.

Bibliography

Kovzan, A.A., Engineer. Method of Electrical Calculation of Systems: "Two Wire-Aircraft Frame" 67
The author presents his method of calculation.

Bibliography

Kovzan, A.A., Engineer. Electrical Calculation of Systems: 73
"Two Wire-Aircraft Frame" With Asymmetric Loads
The author outlines his method of calculation and presents 74
a numerical example.

Bibliography

Istratov, V.N., Candidate of Technical Sciences. Some Conditions 78
for Optimal Performance of Pulse Protection Against Short-circuits
Card 6/7

Electric Circuits (Cont.)

SOV/3160

in D-C Systems

The author describes the type of differential pulse protection used, finds analytically the conditions for optimal performance, and presents a numerical example of calculations. 79

AVAILABLE: Library of Congress

Card 7/7

JP/jb
4-5-60

TIMOFEEV, A.B., kand. tekhn. nauk

Optimum form of the turns of a toroidal mutual reactor. Izv. vys. ucheb. zav.; energ. no. 2:48-50 F '58. (MIRA 11:7)

1. Moskovskiy aviationsionnyy institut im. Sergo Ordzhonikidze.
(Electric coils)

USPENSKAYA, N.V.; ISTRATOV, V.N., kand.tekhn.nauk; DMITRIYEV, S.N.;
SUROV, M.G.; BOGATYREV, O.M.; KUPALIANA, S.D., kand.tekhn.
nauk; KAMENSKIY, A.V.; KAMENSKIY, A.V.; TIMOFEEV, A.B.;
KHUKHRIKOV, S.S.; ANTONOVA, S.D., izdat.red.; ZUDAKIN, I.M.,
tekhn.red.

[Collection of problems pertaining to the theoretical
principles in electrical engineering] Sbornik zadach po
teoreticheskim osnovam elektrotekhniki. Pod red. V.N.Istra-
tova i S.D.Kupaliana. Moskva, Gos.izd-vo obor.promyshl.,
1959. 124 p.
(MIRA 13:1)

1. Moscow. Aviationsionnyy institut imeni Sergo Ordzhonikidze.
(Electricity--Problems, exercises, etc.)

ATABEKOV, Grigorij Iosifovich; TIMOFEEV, Andrey Borisovich;
KHUKHRIKOV, Sergey Sergeyevich; LEVITAN, S.A., red.;
BORUNOV, N.I., tekhn. red.

[Theoretical principles of electrical engineering in three
parts]Teoreticheskie osnovy elektrotehniki v trekh chastiakh.
Moskva, Gosenergoizdat, Pt.2.[Nonlinear networks]Nelineinyye
tsepi. 1962. 127 p. (MIRA 16:3)
(Electric engineering) (Electric networks)

Timofeyev, A.D.

AUTHOR:

Timofeyev, A.D., Fogel', Ya.M.

57-9-27/40

TITLE:

On the Dividing of the Atomic Bundle into Components with
Oriented Spin of the Electron Shell by Means of the Exponential
Magnetic Field
(O razdelenii atomnogo puchka na komponenty s oriyentirovannym
spinom elektronnoy obolochki s pomoshch'yu eksponentsiyal'nogo
magnitnogo polya)

PERIODICAL:

ABSTRACT:

Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 9, pp. 2129 - 2133 (USSR)
A calculation is dealt with here, which confirms the author's
(ZhETF, 21, 38, 1951) with respect to the following: The pondero-
motoric force acting upon a particle with a magnetic moment,
which is in the exponential field, is directed parallel to the
median field plane and depends solely upon one coordinate. In
this way it is possible to attain a considerable splitting up
of the bundle with a relatively great width of slot by which the
atomic beam is determined, and thus to increase the number of
atoms with an oriented spin of the electron shell in the beam.
Equations are derived with the aid of which it is possible to
construct trajectories for hydrogen atoms in an exponential mag-
netic field. The number of atoms in the bundle passing through
the selector gap is computed in consideration of that number of

Card 1/2

57-9-27/40

On the Dividing of the Atomic Bundle into Components with Oriented Spin of the Electron Shell by Means of the Exponential Magnetic Field atoms in the bundle which passed through the collimator gap. Also the weakening of the bundle according to spins and because of the divergence of the bundle in the verticals is taken into account. The formula for the computation of the number of particles passing through the collimator is given. For the determination of this amount N_k (number of particles) the height of the gap and the hydrogen pressure in the source must be given. On the basis of Maxwell's velocity distribution of the particles in the atomic bundle the number of particles passing through the selector gap can be determined. There are 2 figures and 1 Slavic reference.

ASSOCIATION: Physical-Technical Institute, AN Ukrainian SSR, Khar'kov
(Fiziko-tehnicheskiy institut AN USSR, Khar'kov)
SUBMITTED: March 26, 1957
AVAILABLE: Library of Congress

Card 2/2

24.6520

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SOV/81-59-12-41294

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 12, p 5 (USSR)

AUTHORS: Fogel', Ya. M., Timofeyev, A.D.TITLE: The Double Overcharging of Li⁺ Ions in Single Collisions With Gas
MoleculesPERIODICAL: Uch. zap. Khar'kovsk. un-t, 1958, Vol 98, Tr. Fiz. otd. fiz.-matem. fak., Vol 7, pp 177-193ABSTRACT: Effective cross sections of the double overcharging of Li⁺ ions with an energy of 3-14 kev with molecules H₂, N₂, O₂, He, Ne, Ar, Kr and Xe have been measured by means of the mass-spectrometric method. The effective cross sections of the double overcharging σ₁₋₁ strongly depend on the gas type and are within the range of 10⁻²¹-10⁻¹⁹ cm². The comparison of the results of the present work with the data on the double overcharging of H₁⁺, C₁⁺ and O₁⁺ shows that the value of σ₁₋₁ decreases with an increase in the energy of the electron bond in the particle. The cross section σ₁₋₁ increases with an increase in the energy of the electron bond

Card 1/2

67982

SOV/81-59-12-41294

The Double Overcharging of Li^+ Ions in Single Collisions With Gas Molecules

in the formed negative ion. The resonance defect is not a universal parameter
determining the cross section of the double overcharging.

V.A. ✓

Card 2/2

Imo Feys, A. D.

9(314)

PHASE I BOOK EXPLOITATION

SOV/2746

Akademiya nauk USSR. Fiziko-tehnicheskiy institut

Elektrostaticheskiye generatory; sbornik statey (Electrostatic Generators;
Collection of Articles) Moscow, Atomizdat, 1959. 255 p. 4,100 copies
printed.

Ed. (Title page): A. K. Val'ter, Member, Academy of Sciences, USSR; Ed. (Inside
book): Z. D. Andreyenko; Tech. Ed.: N. A. Vlasova.

PURPOSE: This collection of articles may be useful to scientists and engineers
working with high-voltage electrostatic generators.

COVERAGE: The authors discuss the construction and operation of a number of
electrostatic generators developed in the USSR and describe methods of gen-
rating negative hydrogen ions. They discuss the operation of accelerating
tubes and present methods of stabilizing accelerator voltages. No per-
sonalities are mentioned. References appear at the end of some articles.

Electrostatic Generators (Cont.)

SOV/2746

TABLE OF CONTENTS:

Val'ter, A. K. Areas of Use and General Principles of Construction of High-voltage Electrostatic Generators

The author presents a general discussion of various types of construction of high-voltage electrostatic generators and describes their fields of use. There are no references.

Koval', A. G., L. I. Krupnik, A. D. Timofeyev and Ya. M. Fogel'. Problem of Producing a Beam of Negative Hydrogen Ions by Overcharging Positive Ions in a Cathode Channel of a High-frequency Source

15

The authors discuss a negative hydrogen-ion source based on the production of a negative ion beam by overcharging positive ions in a gas flowing through a cathode channel of a high-frequency source. They also derive expressions for determining amount of negative hydrogen ions in that beam. There are 11 references: 6 Soviet, 4 English and 1 German.

Tsygikalo, A. A. Testing of Accelerating Tubes of a 4 Mev Electrostatic Accelerator Developed by FTI AN UkrSSR

23

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Electrostatic Generators (Cont.)

SOV/2746

generators and describe the construction of a magnetic ion source with a cold cathode and a high-frequency source. They also discuss the experimental study of these sources conducted by FTI AN UkrSSR and describe the experimental results. There are 29 references: 9 Soviet, 18 English and 2 German.

Fogel', Ya. M., L. I. Krupnik, A. G. Koval' and A. D. Timofeyev. Source of Negative Hydrogen Ions for an Overcharging Electrostatic Generator
The authors describe the construction and operation of three models of negative hydrogen-ion sources developed by FTI AN UkrSSR and present the analysis of their characteristics. The first and the second models were developed in 1955 and 1956 respectively. The third model, built later, is essentially a copy of that developed by Weinman, J. A., and Cameron, J. K., of the University of Wisconsin, U. S. A. In the analysis of characteristics of these models the authors discuss the negative ion spectrum, methods of determining the coefficient of transformation of positive ions into negative, focusing of ion beams, and loss of ion energy. There are 9 references: 3 Soviet, 4 English and 2 German.

141

26.2351

30605
S/058/51/000/008/005/044
A058/A101

AUTHORS: Fogel', Ya. M., Krupnik, L. I., Koval', A. G., Timofeyev, A. D.

TITLE: A source of hydrogen anions for a recharging electrostatic generator

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1961, 34, abstract 8B26 (v sb.
"Elektrostat. generatory". M., Atomizdat, 1959, 141-182)

TEXT: The authors describe three models of a hydrogen anion source based on the effect of transformation of hydrogen cations into anions incident to passage through a supersonic stream of mercury vapors. It became clear from experiments that in order to obtain maximum current it was advantageous to employ $H_3^+ \rightarrow H_1^-$ and $H_2^+ \rightarrow H_1^-$ transformations rather than the $H_1^+ \rightarrow H_1^-$ transformation. It is shown that the transformation coefficient in a mercury vapor target is greater than in an oil vapor target. The third source model made it possible to generate a H_1^- ion current of $\approx 20 \mu\text{a}$.

D. Koshkarev

[Abstracter's note: Complete translation]

Card 1/1

X

TIMOREYEV, A. D., PANKRAT'YEV, YU. I., TERESHIN, V. I., TRUBCHANINOV, S. A., NOZDRACHEV, M. G., NABOKA, V. A., SAFRONOV, B. G., KALMYKOV, A. A.,

"Plasma Guns Investigation."

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases,
Paris, France 8-13 Jul 63

KALMYKOV, A.A.; TIMOFEEV, A.D.; PANKRAT'YEV, Yu.I.; TERESHIN, V.I.;
VERESHCHAGIN, V.L.; ZLATOPOL'SKIY, L.A.

Method for measuring the energy and mass spectrum of the ion
component of a moving plasma. Prib. i tekhn. eksp. 8 no.5:142-
145 S-0 '63. (MIRA 16:12)

1. Fiziko-tehnicheskiy institut AN UkrSSR.

KALMYKOV, A.O. [Kalmykov, A.O.]; MARININ, V.G. [Marynin, V.H.]; SIVAGIN, F.V.
[Svahin, F.V.]; TIMOFEEV, A.D. [Tymofeev, A.D.]

Effect of the geometry of the electrodes of a coaxial gun
on the parameters of plasma clots. Ukr. fiz. zhur. 9 no.9:
1023-1025 S '64. (MIRA 17:11)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.

"APPROVED FOR RELEASE: 07/16/2001

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CIA-RDP86-00513R001755710017-7"

admission and firing of a coaxial plasma source is less than a certain critical value (which was approximately 300 μ sec for the present apparatus) the plasma is

seen to have an optimum electrode length at which the velocity of the plasma is

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Card 3/3

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710017-7"

PANADIADI, A.D., kand. sel'khoz. nauk; VOLOVSKIY, S.P., kand.
sel'khoz. nauk; NAVROTSKIY, S.K., kand. sel'khoz. nauk;
PANADIADI, Ye.A., inzh.; SPIRIDONOV, A.L., kand. sel'khoz. nauk;
khoz. nauk; TIMOFEEV, A.F., kand. sel'khoz. nauk;
LAPIDOVSKIY, K.I., red.

[Agricultural melioration] Sel'skokhoziaistvennaia me-
lioratsiya. Moskva, Kolos, 1965. 502 p. (MIRA 18:7)

USSR / Forestry. Forest Economy.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100167

Author : Pisarev, Kh. A.; Timofeyev, A. F.

Inst : Leningrad Forest Engineering Academy im. S. M. Kirov
Title : The Significance of Drainage in Raising the Productiveness
of the Taiga Zone Forests (Studies of the Hydraulic
Engineering Amelioration Department of the S. M. Kirov
Forest Engineering Academy)

Orig Pub : Tr. Leningr. lesotekhn. akad., 1957, vyp 81, ch. 2,
71-78

Abstract : Investigations of the Lisinsk Study-Experimental Forest
Economy have established that on relatively impermeable
soils forest productivity depends directly upon the subsoil
water depth. A relationship has also been found between
the quality of young (20-40 years) pine forests and the
zonation of the peat. When the peat is less than 40-50

Card 1/2

20

USSR / Forestry. Forest Economy.

K

Ats Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100167

cm. thick, the tree productivity is most affected by the underlying soil layers, and the size of the ash content no longer plays any role. It is assumed that drainage of temporarily moistened areas would give good results, since this measure would create conditions favorable to seed germination and the growth of shoots. The effect of drainage is most noticeable in the growth of the young trees, the best growth of which on the inter-ditch strip is best when drainage ditches are 100 meters apart. The average height of ten-year old pines under these conditions is three meters and the maximum vertical growth is 50-60 cm. Problems of the utilization of drainage systems are touched upon and other favorable aspects of drainage are noted. -- V. V. Protopopov

Card 2/2

TIMOFEYEV, A.F.; BLEZE, N.A.

Manufacture of metallurgical coke from Karaganda coals. Koks
i khim no.4:10-12 '62. (MIRA 16:8)

1. Karagandinskiy metallurgicheskiy zavod.
(Karaganda Basin--Coal) (Coke)

ZAKHAROV, S.S., doktor sel'khoz. nauk, prof.; LARIONENKO, V.B.,
kand. sel'khoz. nauk; NOVIKOVA, V.K.; TIMOFEEV, A.F.,
kand. sel'khoz. nauk, dots.; SKOROPANOV, S.G., akademik,
red.; GRACHEVA, V.S., red.; MAKHOVA, N.N., tekhn. red.;
TRUKHINA, O.N., tekhn. red.

[Fundamentals of agriculture and land improvement opera-
tions] Osnovy zemledelija i kul'turtekhnicheskie raboty.
[By] S.S.Zakharov i dr. Moskva, Sel'khozizdat, 1963. 278 p.
(MIRA 17:1)

1. Prepodavatel' Pinskogo gidromeliorativnogo tekhnikuma
(for Novikova). 2. Akademiya nauk Belorusskoy SSR (for
Skoropanov).

TILOFEEV, A. F., VOLNOVA, A. A., GOREBUTUK, R. V.

"Comparative data on the infectivity of ticks." p. 213

Desyatoye soveshchaniye po parazitologicheskim problemam i prirodnoochagovym bleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 25pp.

Inst. of Zoology and Parasitology, AS Kirgiz SSR /Frunze

TIMOREVYEV, A. S., VOLKOVA, A. A., DESYATOV, N. V., SAMSHAYEV, S. K.

"Necrobacillosis, a disease with a possible natural focus." p. 283

Desyatoye Soveshchaniye po parazitologicheskim problemam i
prirodnocchagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference
on Parasitological Problems and Diseases with "natural Foci 22-29
October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences
USSR and Academy of Sciences USSR, No. L 254pp.

Inst. of Zoology and Parasitology, AS Kirgizian SSR/ Frunze

TIMOFEEV, A.F.

Q rickettsiosis of sheep in Kirghizistan and the analysis of
a complex method of diagnosing Q rickettsiosis and brucellosis
by the complement fixation reaction. Izv. AN Kir. SSR. Ser. biol.
nauk 6 no.2e17-29 1962 (MIR 1987)

TIMOFEEV, A.F.

A complex method of setting up the complement fixation reaction for brucellosis and Q rickettsiosis. Izv. AN Kir. SSR
Ser. biol. nauk 4 no.4:41-48'62. (MIRA 16:6)
(KIRGHIZISTAN--BRUCELLOSIS) (KIRGHIZISTAN-- Q FEVER)
(COMPLEMENT FIXATION)

TIMOFEEV, A.F.

Microbiological and serological observations in the experi-
ment study of ~~the role of ticks in brucellosis~~. Izv. AM. .
Kir. SSR Ser. biol. nauk 4 no.4:19-40'62. (MIRAL6:6)
(BRUCELLOSIS) (TICKS AS CARRIERS OF DISEASE)

VOLKOVA, A.A.; GREBENYUK, R.V.; TIMOFEEV, A.F.

Role of ixodid ticks in the epizootiology of brucellosis.
Izv. AN Kir. SSR Ser. biol. nauk 4 no.5:5-13 '62.
(MIRA 16:6)

1. Laboratoriya mikrobiologii (rukovoditel' doktor veter.
nauk akademik AN Kirgizskoy SSR A.A. Volkova) i laboratoriya
arakhnologii (rukovoditel' kand. biolog. nauk R.V. Grebenyuk)
AN Kirgizskoy SSR.

(Kirghizistan—Brucellosis)
(Kirghizistan—Ticks as carriers of disease)

VOLKOVA, A.A.; GREBENYUK, R.V.; TIMOFEEV, A.F.; VECHERKINA, L.G.

Experimental study on Dermacentor marginatus ticks as possible
vectors of Brucella bovis. Trudy Inst.zool.i paraz.AN Kir.SSR
no.7:161-172 '59. (MIRA 13:4)
(Ticks as carriers of disease) (Brucellosis)

TIMOFEEV, A.F., kand.sel'skokhozyaystvennykh nauk

Professor Khariton Alekseevich Pisar'kov, his research, pedagogical,
creative, and public activities. Trudy Len. lessotekh. akad. no.82
pt.2:77-81 :57. (MIRA 11:9)
(Pisar'kov, Khariton Alekseevich, 1896-)

VOLKOVA, A.A.; TIMOFEEV, A.F.

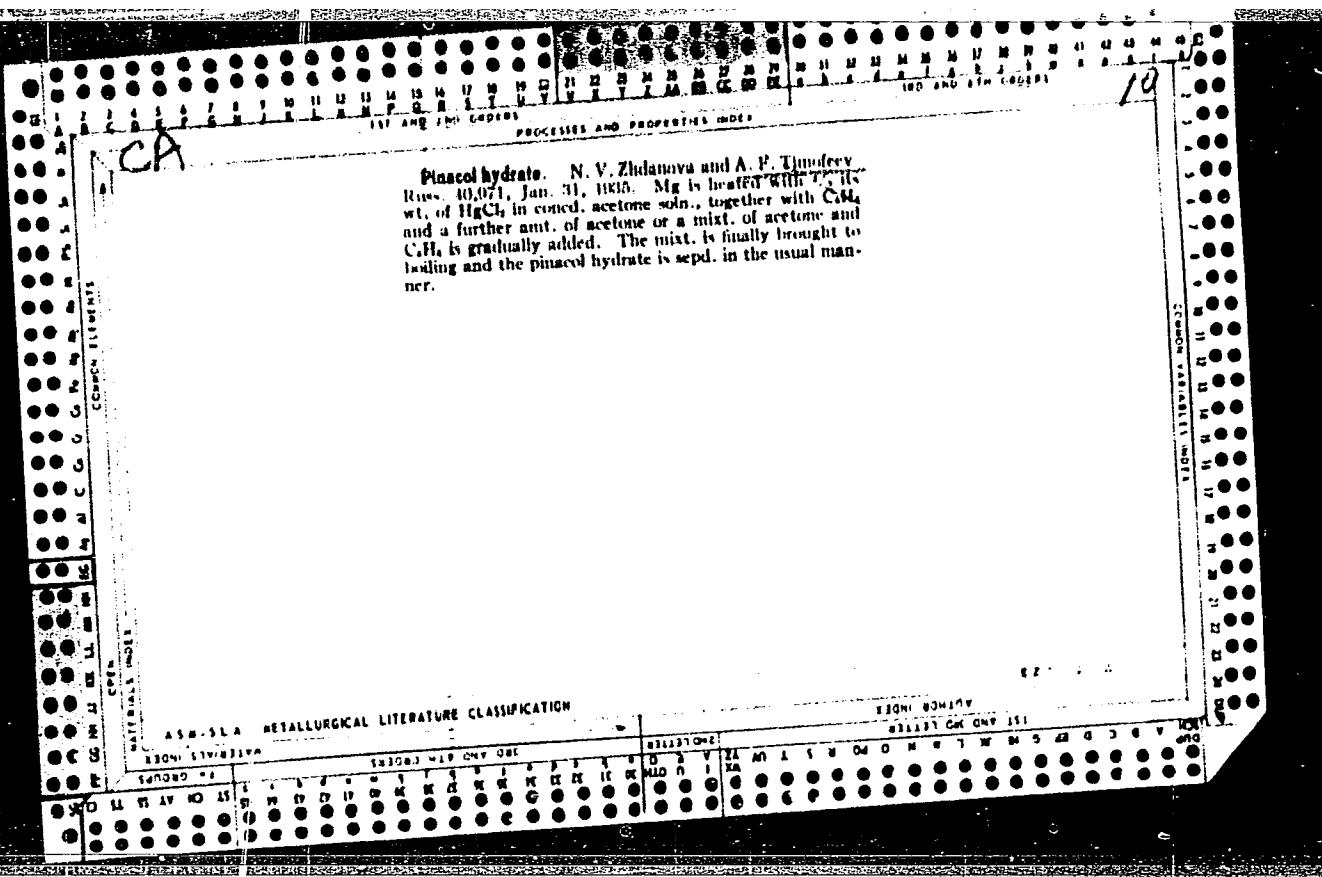
*Studying the effect of furacillin on the causative agent of enzootic
broncho-pneumonia in lambs. Izv. AN Kir. SSR no.3:37-41 '56.
(Antibiotics) (Lambs--Diseases and pests) (MLRA 10:4)*

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TIMOFEEV, A.F.

Changes in *Brucella bovis* and *B. melitensis* under the influence
of the organism of ixodid ticks and the titration of strains
of *Brucella*. Izv. AN Kir. SSR Ser. biol. nauk no.5:15-26
'62. (MIRA 16:6)

1. Laboratoriya mikrobiologii (rukoveditel' doktor veterin.
nauk akademik AN Kirgizskoy SSR A.A. Volkova) AN Kirgizskoy SSR.
(*Brucella*) (Ticks as carriers of disease)

KAZAKEVICH, S.S.; KHOSID, G.M.; MIKHAYLOVA, L.I.; KONETSKIY, N.V.; MIL'SHENKO, R.S.
TIMOFEEV, A.F.; KARAS', G.Ye.

Burned fireclay blocks for large capacity blast furnace stacks.
Trudy Inst. ogneup. no.34:3-27 '63. (MIRA 17:10)

1. Vsesoyuznyy institut ogneuporov (for Mikhaylova). 2. Semilukskiy
ogneupornyy zavod (for Karas').

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SERIALS SECTION

ABSTRACT: THIS REPORT IS A BRIEF SUMMARY OF THE
RESULTS OF AN INVESTIGATION

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L 20951-05

ACCESSION NR: AT5003522

In practice for production of parts from this material. The results
are not yet available.

Very little information is available on the properties of this material.

It is believed to be a polymer.

It is believed to be a polymer.

ASSOCIATION: None

DISPOSITION:

RECORDED: MC, 1B

NR RIF Sov: 007

REF:

WRC 2/20/01

TIMOFEEV, A.

Irreplaceable helpers. Prof.-tekhn. obr. 14 no. 9:28 S '57.
(MLRA 10:9)
1. Master proizvodstvennogo obucheniya tekhnicheskogo uchilishcha
No.4, Kursk.
(Technical education)

TIMOFEEV, A.A., kand. tekhn. nauk

Defects caused by shrinking. Izv. vys. ucheb. zav.; mashinostr.
no.3/4:190-193 '58. (MIRA 12:5)

1. Sibirskiy metallurgicheskiy institut.
(Founding)

TIMOFEEV, A.B., kand. tekhn. nauk; TMR-ZAKHARYAN, V.G., inzh.

Current transformers used for feeding differential protection
relays in airplane electric conduits. Trudy MAI no.85:99-101 '57.
(Electric transformers) (MLRA 10:9)

1. Fiziko-tehnicheskiy institut AN USSR, Khar'kov.

TIMOFEEV, A.D.; FOGEL', Ya.M.

Division of atomic beams into components with oriented-spin electron
shells by means of an exponential magnetic field. Zhur. tekh. fiz.
27 no.9:2129-2133 \$ '57. (MIRA 10:11)

1. Fiziko-tehnicheskiy institut AN USSR, Khar'kov.
(Ion beams) (Magnetic fields)

35339
S/194/62/000/001/044/066
D201/D305

26.23/2

AUTHORS: Koval', A. G., Krupnik, L. I., Timofeyev, A. D. and Fogel', Ya. M.

TITLE: Obtaining a beam of negative hydrogen ions by reversing the charge polarity of the positive ions in the cathode channel of a high frequency source

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, 56, abstract 1Zh391 (V sb. Elektrostat. generatory, M., Atomizdat, 1959, 15-22)

TEXT: The latest data on effective capture cross-sections and electron losses by hydrogen particles in their collisions with hydrogen molecules (RZhFiz, 1955, no. 7, 13596; 1957, no. 5, 12345; 1958, no. 1, 701; no. 11, 24892; 1959, no. 11, 25520) are used to determine the optimum conditions for the operation of negative hydrogen ion source as suggested by Phillips and Tuck (RZh Fiz, 1959, no. 11, 32135). In this source, the beam of negative ions is obtained by changing the charge polarity of positive ions

Card 1/2

S/194/62/000/001/044/066
D201/D305

Obtaining a beam ...

in a gas flowing in the cathode channel of a HF source. The graphs of calculated ratios I^+/I_o^+ and I^-/I_o^+ as functions of the target thickness are given for the ion energies of 4 and 6 keV (here I_o^+ - the current of positive ions entering the channel of the HF source and I^+ and I^- - the currents of positive and negative ions respectively, in the beam which has left the channel). The graphs of dependence of I^- , I^+ and I_o^+ on the gas stream flowing into the source container are also given. Calculations show that the investigated method of obtaining negative hydrogen ions cannot produce high intensity beams. Nevertheless, in cases when a current of H_1^- ions of the order of $10 \mu A$ is sufficient, the use of the above method may be recommended. 11 references. [Abstracter's note:
Complete translation.]

X

Card 2/2

VOLKOVA, A.A.; GREBENYUK, R.V.; TIMOFEYEV, A.F.; GALIYEV, R.S.

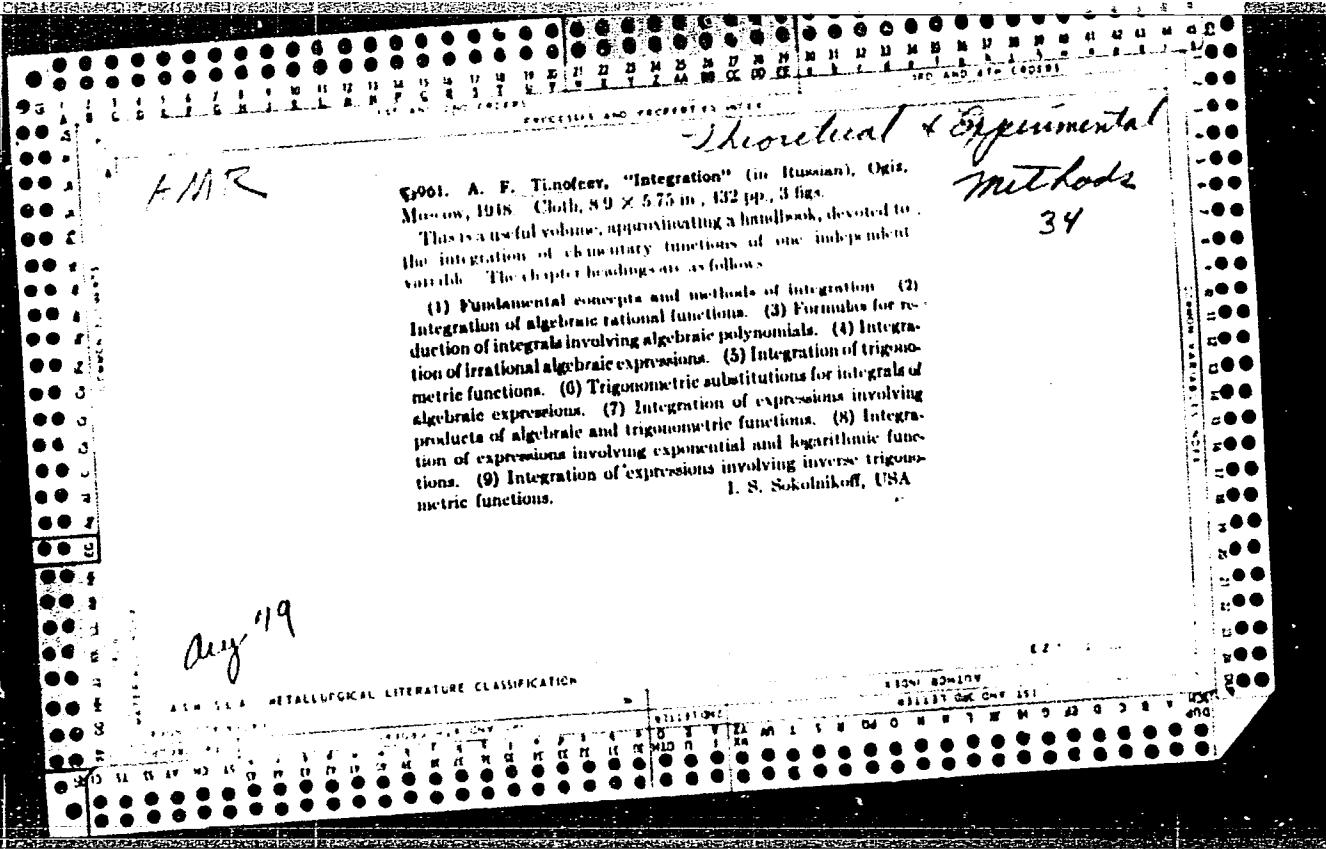
Studying the role of ticks of the genera *Dermacentor* and *Haemaphysalis* in the transmission of brucellosis. Izv. AN Kir. SSR. Ser. biol. nauk 2 no.7:5-24 '60. (MIRA 14:6)
(TICKS AS CARRIERS OF DISEASE) (BRUCELLA)

VOLKOVA, A.A.; TIMOFEYEV, A.F.; GREBENYUK, R.V.

Role of ixodid ticks in the epizootiology of necrobacillosis.
Izv. AN Kir. SSR. Ser. biol. nauk 2 no.7:25-30 '60. (MIRA 14:6)
(KIRGHIZISTAN—NECROSIS, BACILLARY)
(SHEEP—DISEASES AND PESTS)
(TICKS AS CARRIERS OF DISEASE)

GALIYEV, R.S.; TIMOFEYEV, A.F.

A case of tuberculosis in a raven. Izv. AN Kir. SSR. Ser. biol.
nauk 2 no. 7:37-39 '60. (MIRA 14:6)
(KIRGHIZISTAN--RAVENS--DISEASES AND PESTS)
(TUBERCULOSIS IN ANIMALS)



VOLKOVA, A.A.; GREEBENYUK, R.V.; TIMOFEEV, A.F.; GALIYEV, R.S.

Role of some species of ticks of the genus Haemaphysalis Koch.
as carriers of Brucella bovis and B.melitensis. Report No.4.
Izv. AN Kir. SSR. Ser.biol. nauk 4 no.4:5-18'62. (MIRA 16:6)
(KIRGHIZISTAN—TICKS AS CARRIERS OF DISEASE)
(KIRGHIZISTAN—BRUCELLOSIS)

*

1. TIMOFEEV, A. F.
2. USSR (600)
4. Physics and Mathematics
7. Integration of Functions, A. F. Timofeyev. (Moscow-Leningrad, State Technical Press, 1948). Reviewed by R. O. Kuz'min, Sov. Kniga, No. 10, 1948.
9. [REDACTED] Report U-3081, 16 Jan. 1953. Unclassified.

30(1)

SOV/99-59-9-13/14

AUTHOR: Timofeyev, A.F., Docent, and Novikov, D.R., Senior Instructor (Gorki, RSSR)

TITLE: The 40th Anniversary of the Foundation of Hydro-Melioration Activities in Belorussia

PERIODICAL: Gidrotehnika i melioratsiya, 1959, Nr 9, pp 63-64
(USSR)

ABSTRACT: 1959 marked the 40th anniversary of the founding of the Hydro-Amelioration Faculty at the Belorussian Agricultural Academy in Gorki. At present, the Faculty has 236 attending students and 133 external students. The Department has three Chairs: Agricultural Amelioration and Forestry, Water Supply and Hydraulics, and Hydrotechnical Constructions and Resistance of Materials. The teaching staff includes Academician I.F. Garkusha and Professor S.S. Zakharov. In the period from 1918 - 1934, the co-workers of the Faculty wrote over 50 scientific works and 6 textbooks. In the post-war years, co-workers of the Land Reclamation Chair

Card 1/2

SOV/99-59-9-13/14

The 40th Anniversary of the Foundation of Hydro-Melioration Activities in Belorussia

are working on the problem "Methods of Amelioration of Mineralized, Periodically Overwatered Soils in the BSSR". Docent B.I. Yakovlev, Senior Instructor A.N. Leushev and Senior Instructor A.I. Bogdanovich are participating in this work. Assistant V.I. Klippert is conducting research on the computation and operation of draining systems in peatbogs. Docent F.V. Ignatenok is carrying on with his work on improvement of drainage constructions. Docent V.I. Puchko is working out schemes for the rural economy water supply. Docent V.N. Tsinger is busy with questions of maximum consumption transformation of rivers by water storage basins. The Chair of Hydroinstallations under Docent M.Ya. Novikov is working on the problem "Auto-Roads in the Drained Swamps of Poles'ye".

Card 2/2

1. TIMOFEEV, A. F.
2. USSR (600)
4. Drainage
7. Productive utilization of drainage systems. Les. khoz. 5 no. 12;1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

OSIPOVA, V.I.; TIMOFEYEV, A.F.; KIGEL', S.L., inzh.; OSETROVA, K.I.; SHCHEKOTOVA, O.D.; KUZ'MINYKH, T.F.; TOLSTYKH, A.K., telefonistka, udarnik kommunisticheskogo truda

Long-distance through calls should be given a green light. Vest. sviazi
23 no.1:21-23 Ja '63. (MIRA 16:3)

1. Nachal'nik Kiyevskoy mezdugorodnoy telefonnoy stantsii (for Osipova).
2. Nachal'nik Tashkentskoy mezdugorodnoy telefonnoy stantsii (for Timofeyev).
3. Nachal'nik laboratori i ekonomiki svyazi TSentral'nogo nauchno-issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for Srapionov).
4. TSentral'nyy nauchno-issledovatel'skiy institut svyazi Ministerstva svyazi SSSR (for Yefimov).
5. Proizvodstvennaya laboratoriya Kazanskoy mezdugorodnoy telefonnoy stantsii (for Kigel').
6. Starshiy inzh. Rizhskoy telegrafno-telefonnoy kontory (for Osetrova).
7. Starshiy inzh. Tyumenskoy mezdugorodnoy telefonnoy stantsii (for Shchekotova).
8. Starshaya telefonistka Tyumenskoy mezdugorodnoy telefonnoy stantsii (for Kuz'minykh).
9. Tyumenskaya mezdugorodnaya telefonnaya stantsiya (for Tolstykh).
(Telephone)

PISAR'KOV, Khariton Alekseyevich; TIMOFEEV, Aleksandr Filippovich;
BUDYKA, S.Kh., prof., retsənzent; YELPAT'YEVSKIY, M.P.,
red.

[Hydraulic engeneering in the improvement of forest soils]
Gidrotekhnicheskie melioratsii lesnykh zemel'. Izd.2., isp.
i dop. Moskva, Izd-vo "Lesnaia promyshlennost',"
(MIRA 17:4)
1. Belorusskiy tekhnologicheskiy institut im. S.M.Kirova
(for Budyka).

TIMOFEYEV, A.G.

Improving the guide of an automatic labeling machine. Kons.i ov.prom.
12 no.9:24-25 S '57. (MERA 10:10)

1. Rostovskiy konservnyy zavod "Smychka."
(Labeling machines)

KLENIN, N.I., dots.; POPOV, I.F., dots.; SERGEYEV, A.S., dots.;
SOLOV'YEV, V.M., dots.; TIKOFSEYEV, A.I., dots.; SHMELEV,
B.M., dots.; LETNEV, B.Ya., red.; PEVZNER, V.I., tekhn.
red.; DUDAKOV, V.A., tekhn. red.

[Manual on practical exercises with agricultural machines
and implements] Praktikum po sel'skokhoziaistvennym mashinam
i orudiiam. [By] N.I.Klenin i dr. Moskva, Sel'khozizdat,
1963. 319 p. (MIRA 17:2)

ZHELIGOVSKIY, Vladislav Aleksandrovich, akademik; TIMOFEEV, A.I.,
kand. tekhn. nauk, dots.; KHOKHLOV, I., prof., red.

[Elements underlying the theory of tilling machines and
engineering technology of agricultural materials] Elementy
teorii pochvoobrabatyvushchikh mashin i mekhanicheskoi
tekhnologii sel'sko-khoziaistvennykh materialov. Tbilisi,
Izd-vo Gruzinskogo Ordena Trudovogo Krasnogo Znameni Sel'-
khoz.in-ta, 1960. 145 p. (MIRA 15:8)
(Agricultural machinery)

VOL'BERG, N.Ye.; GAYDAGAK, K.M.; D.MAT, M.P.; KOPEPIN, V.V.;
MOLOKANOV, A.V.; NAUMOV, V.G.; PALAGIN, A.V.; TINGFEYEV,
A.I.; FRANTSUZOV, Ya.L.; VOLYANSKIY, A.K., glav. red.;
SUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.;
ORLOV, V.M., red.; ONKIN, A.K., red.; NIKOLAYEVSKIY,
Ye.Ya., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.;
STAROVYREV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV,
A.V., red.; KRYLOV, V.A., nauchn. red.

[Assembly of technological equipment of chemical plants]
Montazh tekhnologicheskogo oborudovaniia khimicheskikh
zavodov. Moskva, Stroizdat, 1964. 619 p.
(MIRA 17:11)

25(6)

SOV/101-59-3-3/10

AUTHOR: Timofeyev, A.I.

TITLE: The Signalization of the Overheating of Bearings by Means of Semiconductor Thermoresistances

PERIODICAL: Tsement, 1959, Nr 3, pp 10-18 (USSR)

ABSTRACT: The Podol'skiy tsementnyy zavod (Podol'sk Cement Plant) has developed and uses a new system for signalization of the permissible limit of heat reached in the main unit bearings. The system is based on the use of semiconductors and relays, and has replaced the TS-100 type manometric thermometers. The article contains detailed engineering information on the design and operation, and explains the method of determination of the system parameters by graphic means. The thermo-pickup with built-in thermoresistance of the KMT-11 type is shown in a drawing (Figure 8). There are 6 graphs, 1 table, 1 diagram and 4 circuit schemes.

Card 1/1

S/081/61/000/021/054/094
B110/B101

AUTHORS: Ivanov, I. A., Timofeyev, A. I.

TITLE: Production of light concretes on the basis of agloporite ash

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 314, abstract
21K326 (Izv. vyssh. uchebn. zavedeniy. Str-vo i arkhitekt.,
no. 6, 1960, 157-163)

TEXT: Agloporite from the ash of the TЭЦ-3 (TETs-3) of the town of Novosibirsk is characterized by a volume weight of 1000 - 1100 kg/m³ per piece, a volume bulk weight of 600-700 kg/m³, and a strength of 50-70 kg/cm². 10 · 10 · 10-cm samples were produced from agloporite concrete by vibration for 1.5 min at a 32 g/cm²-load on a laboratory vibrator and by steaming out for 12 hr at 90°C. It was found that agloporite ash has the types 25 to 150 with a volume weight of 900-1500 kg/m³. Hence it can be used for construction- and heat insulating products. [Abstracter's note:
Complete translation.] ✓

Card 1/1

SOLDATOV, A.M.; SPIRIN, P.V.; TIMOFEYEV, A.I.

Treating oil wells with a sodium-sulfide salt reagent in the fields
of Kuybyshev Province. Nefteprom. delo. no.9:12-15 '64. (MIRA 17:10)

1. Kuybyshevskiy nauchno-issledovatel'skiy institut neftyanoy promy-
shlennosti.

SOLDATOV, A.M.; TIMOFEYEV, A.I.; SPIRIN, P.V.; MERKULOV, V.P.; MENDKOVICH, Z.Ya.

Disintegration of rocks and metal by the sand-jet method.
Nefteprom. delo no.11:12-16 '64. (MIRA 18:3)

1. Kuybyshevskiy nauchno-issledovatel'skiy institut neftyanoy
promyshlennosti.

ACC NR: AP7009665

SOURCE CODE: UR/0386/67/005/004/0133/0135

AUTHOR: Turov, Ye. A.; Timofeyev, A. I.

ORG: Institute of Physics of Metals, Academy of Sciences, SSSR (Institut fiziki metallov Akademii nauk SSSR); Ural State University im. A. M. Gor'kiy (Ural'skiy gosudarstvenny universitet).

TITLE: Nuclear magnetoacoustic resonance in spin-lattice relaxation in antiferromagnets of the easy plane type

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 5, no. 4, 1967, 133-135

TOPIC TAGS: nuclear magnetic resonance, ultrasonic irradiation, resonance absorption, ultrasound absorption, spin lattice relaxation, nuclear spin

ABSTRACT: The authors report results of calculation of the coefficient of resonant absorption of ultrasound (α) at the nuclear magnetic resonance frequency, and of the rate of spin-lattice relaxation ($1/T_1$) of the nuclear spins in antiferromagnets of the easy plane type. It is shown that the essential difference between the formulas derived in the present work and those derived by others for the easy-axis type of antiferromagnets lies in the appearance of a dependence on the exchange-interaction parameter, due in turn to the presence of spin waves with a small energy gap. This makes the values of α and $1/T_1$ approximately 10^4 times larger in easy-plane antiferromagnets than in easy-axis ones. An estimate is also presented for the sound flux

Cord 1/2

ACC NR: AP7009665

necessary for acoustic saturation of the nuclear spin system. In the case of hematite the value obtained for $1/T_1$ agrees with the published experimental data. A method of observing acoustic NMR by determining the shift of the antiferromagnetic resonance frequency when ultrasound of the NMR frequency is applied to the sample is also discussed. Orig. art. has: 5 formulas.

SUB CODE: 20/ SUBM DATE: 01Dec66/ ORIG REF: 002/ OTH REF: 003

Card 2/2

TIMOFEEV, A. K., Engineer

"Investigation of Existing Methods for Calculating the Sound
Proofing of Residential and Public Buildings." Sub 4 Jul 47, Sci
Res Inst of Construction Engineering, Academy of Architecture USSR

Dissertations presented for degrees in science and engineering
in Moscow in 1947. *End Tech. Sci*

SO: Sum. No. 457, 18 Apr 55

TIMOFEEV, A.K., inzhener, laureat Stalinskoy premii; RATTs, E.G., kandidat tehnicheskikh nauk.

Manufacture of short reinforced concrete pipe in the Dubininskii factory.
(MIRA 6:11)
Gor.khoz.Mosk. 25 no.9:18-20 S '51.
(Pipe, Concrete)

TIMOFEEV, A.K., kandidat tekhnicheskikh nauk.

Sound insulation values of ceilings and walls in Moscow dwellings. Gor.khoz.
(MLRA 6:11)
Mosk. 25 no.10:16-21 0 '51.
(Moscow--Soundproofing) (Soundproofing--Moscow)

RATTS, YE. T., TMOFEEV, A. K.

Precast Concrete Construction

Line production of panels in movable forms on lines in multiple-section rooms.

Stroi. prom. 30 no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

TRIFAYEV, A. A.

"The Theory of Tangency of Surfaces in Affine Spaces and Its Application to the Theory of Internal Labeling of a Surface." Cand Phys-Math Sci, Saratov State U, Saratov, 1953. Dissertation (Referativnyy Zhurnal--Matematika Moscow, Nov 1954)

SL: SU. 136, 19 Rev. 1954

TIMOFEEV, A. K.

Noises

Fight against noise from sanitary and technical installations as well as from the elevator equipment in apartment houses. Gor. khoz. Mosk. 27, No. 2, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

TIMOFEEV, A. N.

MOROZOV, N.V.; NIKOL'SKIY, V.N., kandidat tekhnicheskikh nauk; TIMOFEEV,
A.K., kandidat tekhnicheskikh nauk; SHERENTSIK, A.A., kandidat tekhnicheskikh nauk;
ROSTOVTSYVA, M.P., redaktor; DAKHNOV, V.S., tekhnicheskiy redaktor.

[Construction procedures for the soundproofing of walls, floors, and
ceilings of multistoried apartment houses] Konstruktivnye resheniya
zvukoizolatsii mezhkvartirnykh sten i mezhduetazhnykh perekrytii
mnogoetazhnykh zhilykh domov. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 39 p.
(MLRA 7:8)
(Soundproofing)

TIMOFEEV, A.K., kandidat tekhnicheskikh nauk; NIKOL'SKIY, V.N., kandidat
tekhnicheskikh nauk.

Soundproofing classrooms in school buildings. Gor.khoz.Mosk. 28 no.5:
9-11 My '54.
(Soundproofing) (Schoolhouses)

TIMOFEEV, A.K.

Progressive designs and effective sound insulation materials. Gor.
khoz. Mosk. 29 no. 9:3-4 S '55. (MLRA 8:12)

1. Akademiya arkitektury SSSR.
(Soundproofing)

TIMOFEYEV, Aleksandr Konstantinovich, kandidat tekhnicheskikh nauk;
MOKOZ, I.I., redaktor; FURMAN, G.V., tekhnicheskiy redaktor

[Soundproofing apartment houses] Zvukoizoliatsiya v zhilishchnom
stroitel'stve. Moskva, Izd-vo "Znanie," 1956. 29 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii.
Ser.4, no.22)
(Soundproofing)

(MIRA 9:8)

TIMOFEEV, A.K., kandidat tekhnicheskikh nauk, redaktor; YEGOROVA, N.O.,
redaktor izdatel'stva; BOBOVNEV, N.K., tekhnicheskiy redaktor

[Soundproofing of residential and public buildings; collected
articles] Zvukoizolatsiya v zhilykh i obshchestvennykh zdaniakh;
sbornik statei. Pod red. A.K. Timofeeva. Moskva, Gos. izd-vo lit-
ry po stroit. i arkhit., 1957. 81 p. (MLRA 10:4)

1. Akademiya arkhitektury SSSR, Moscow. Nauchno-issledovatel'skiy
institut stroitel'noy tekhniki.
(Soundproofing)

TIMOFEEV, A.K.

Construction of the equipment of a hypersurface in affinely
connected space. Uch, zap. Bal. gos. ped. inst. 10:64-69
'63. (MIRA 18:10)

NIKOL'SKIY, V.N., kand.tekhn.nauk; OSIPOV, G.L., kand.tekhn.nauk; TIMOFEEV,
A.K., kand.tekhn.nauk

Soviet and foreign norms for soundproofing. Gig.i san. 25 no.9:60-
65 S '60. (MIRA 13:9)

1. Iz Nauchno-issledovatel'skogo instituta stroitel'noy fiziki i
ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury
SSSR.

(SOUNDPROOFING)

COUNTRY	:	USSR
CATEGORY	:	Forestry. Forest Management
ABS. JOUR.	:	SelBiol., No. 2, 1959, No. 6160
AUTHOR	:	Pisar'kov, Kh.A.; Timofeyev, A.P.
INST.	:	
TITLE	:	Rise in Forest productivity by means of cod-Drying melioration.
OPNG. PUB.	:	V so.: Uchet lesosyr'y v ykh resursov i ustroystvo lesov. No.2, L., 1957, 107-122
ABSTRACT	:	numerous examples are given of a sharp rise in the growth of tree stocks in diameter, height, and circumference as a result of drying, which increases the productivity of class 2 - 4 quality tree stocks. The success of the drying depends on the presence in the soil of nutritive elements in a form assimilable by the plants. A scale is given of the prospective effectiveness of drying. Examples are cited showing the favorable influence of drying on forest restor-
Card:	1 / 2	

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 2, 1959, No. 6160

AUTHOR :
INST. :
TITLE :

CRIG. NUB. :

ABSTRACT : ation, the growth of underbrush, the yield of commercial wood, the curtailment of its growth period, and other positive aspects are characterized. Ways of increasing the effectiveness of drying are noted. -- V.I. Klimov

Card: 2 /2

34

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710017-7

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710017-7"

TIMEFEYEV, A. N.

126-2-24/35

AUTHORS: Arkharov, V. I., Klotsman, S. M., and Timofeyev, A. N.

TITLE: Autoradiographic investigation of the influence of small additions of antimony on the diffusion of silver in polycrystalline copper. (Avtoradiograficheskoye issledovaniye vliyaniya malykh dobavok sur'my na diffuziyu serebra v polikristallicheskuyu med').

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, pp. 367-368 (USSR)

ABSTRACT: The influence of small additions of antimony on the character of the diffusion of silver in polycrystalline copper was studied qualitatively by microstructure methods in a paper by Gol'dshteyn, T. Yu., and one of the authors in earlier work (Ref.1). The section was studied of the diffusion zone parallel to the direction of the diffusion; the diffusion zone was exposed by means of etching of a cut by a specially selected reagent. It was found that during diffusion of silver in copper a uniform diffusion front forms and in the copper alloy containing 0.3 to 0.4% antimony the diffusion front has projections along the grain boundaries. Due to the absence of special tests for elucidating the influence Card 1/4 of antimony additions on the possibility of revealing the

126-2-24/35

Autoradiographic investigation of the influence of small additions of antimony on the diffusion of silver in polycrystalline copper.

diffusion zone of silver and copper during etching of cuts, the observed differences in the diffusion character of silver into pure copper and into copper with 0.4% Sb was attributed to differing etching properties of the solid solutions of copper-silver and copper-antimony-silver. For verifying the earlier obtained results autoradiographic studies were made of the diffusion of silver into copper and into a copper alloy containing 0.4% Sb. Prior to diffusion annealing the specimens were subjected to treatment identical with that described in the earlier work (Ref.1), namely, forging followed by annealing at 900°C for 5 to 6 hours. Under standardized conditions Ag¹¹⁰ was deposited in vacuum on the surface of the specimens. Diffusion annealing was effected in vacuum for fifty hours at 650°C. After annealing, the specimens were ground parallel to the active surface. Thus, in contrast to earlier work of one of the authors (Ref.1), cross sections of the diffusion zone were investigated which are perpendicular to the direction of the diffusion. The thickness of the removed layer was measured with an accuracy up to ± 0.002 mm. Figs.1 and 2

Card 2/4

126-2-24/35

Autoradiographic investigation of the influence of small additions of antimony on the diffusion of silver in polycrystalline copper.

show the autoradiograms of cross sections at equal depth from the active surface (0.1 mm). It can be seen that in the pure copper there are "sections" of projections of the diffusion front along the grain boundary which were not revealed by microstructural methods in the earlier work (Ref.1). However, in the alloy containing 0.4% Sb the "sections" of such projections are considerably more pronounced. If in the copper the silver is revealed on the investigated cross sections of the cut only along certain boundaries, the distribution of active silver in the alloy completely surrounds the grain boundaries. This result confirms fully the qualitative observations made in the earlier work (Ref.1). Fig.1 shows the diffusion of Ag^{110} into pure copper at 650°C for a duration of fifty hours, a depth of cut of 0.1 mm; magnification 20 times, exposure 150 hours. Fig.2 shows the diffusion of Ag^{110} into a copper alloy containing 0.4% Sb as a result of annealing at 650°C for fifty hours; depth of cut 0.1 mm, exposure time 150 hours, magnification 20 times.

Card 3/4

Autoradiographic investigation of the influence of small additions
of antimony on the diffusion of silver in polycrystalline copper.
^{126-2-24/35}

There are 2 figures and 1 reference (Arkharov, V.I.,
Gol'dshteyn, T. Yu. Trudy IFM UFAN, 1950, No.11, p.81).

(Note: This is a complete translation).

SUBMITTED: February 12, 1957.

ASSOCIATION: Institute of Physics of Metals, Ural Branch of the Ac.
Sc. USSR (Institut Fiziki Metallov Ural'skogo Filiala
AN SSSR).

AVAILABLE: Library of Congress.

Card 4/4

TIMOFEEV, A.N., kandidat sel'skokhozyaystvennykh nauk.

Damage to table root crops from blows. Sel'khozmashina no.2:13-17
(MLRA 10:4)
F '57.
(Root crops--Harvesting)

KLOTSMAN, S.M.; TIMOFEEV, A.N.; TRAKHTENBERG, I.Sh.

Self-diffusion of electron transfer in intercrystallite joining
silver. Fiz.met.i metalloved. 14 no.5:793-795 N '62.
(MIRA 15:12)

1. Institut fiziki metallov AN SSSR.
(Silver-Electric properties) (Diffusion)

TIMOFEEV, A. N.

Map: URYUMKAN, River. OSU-Am2340 S-202

POPOV, S. D. and TIMOFEEV, A. N.: O Poleznykh Iskopaysmykh
Verkhnego Techeniya Reki Uryumkana.
Trudy Institute Geologicheskikh Nauk, Vyp. 38, 1939.
Akademiya Nauk SSSR
American Geographical Society, New York, N. Y.
Geological map of the Urymkhan Valley.
Scale - 1:324,000 (approx.)
Area: $51^{\circ}30'$ - $52^{\circ}15'$ N, $118^{\circ}44'$ - $119^{\circ}42'$ E.

USSR/Geophysics - Physics of the Earth

TIMOFEEV, A.N.

FD-1721

Card 1/1 : Pub. 45-9/12

Author : Timofeyev, A. N.

Title : ~~Calculation of gravitational anomalies for a linear variation of the density of rocks with depth~~

Periodical : Izv. AN SSSR, Ser. geofiz., 181-184, Mar-Apr 1955

Abstract : The authors show that there are significant density variations in rocks as the depth increases. By an analysis of formulas and a number of examples they show that for objects deposited near the surface, the utilization of the customary formulas can lead to large errors. Formulas are derived whose application will compensate for these errors. In conclusion the authors point out that for objects occurring at great depths the customary formulas are wholly applicable.

Institution : Ural Filial, Academy of Sciences USSR, Mining-Geological Institute

Submitted : January 28, 1954

Timofeyev, A. N.

USSR/ Geology - Gravitational effects

Card 1/1 Pub. 46 - 12/21

Authors : Timofeyev, A. N.

Title : About the causes of the gravitational anomalies in the western part of the West-Siberian lowlands

Periodical : Izv. AN SSSR, Ser. geol. 1, 122-124, Jan-Feb 1955

Abstract : A study is made of the densities of the subterranean rocks from different geological ages in the western part of the West-Siberian lowlands. Figures are compiled for the densities of the different kinds of rocks as well as for the deposits made during different geological ages. The conclusion is reached that the gravitational anomalies in the region are due principally to the variation in the kind of rocks in the pre-Mesozoic base of the plain. Three USSR references (1933-1949). Tables.

Institution :

Submitted : March 25, 1953

TIMOFEEV,A.N.

M.V.Lomonosov originator of static gravimetry. Priroda 44
no.5:71-73 Mu '55. (MIRA 8:7)

(Lomonosov, Mikhail Vasil'evich, 1711-1765) (Gravimeter)

TIMOFEEV, A.N.

Method of characteristic points. Izv. AN SSSR Ser. geofiz. no. 6:712-721
Je '56. (MLRA 9:9)

1.Ural'skiy filial Akademii nauk SSSR, Gorno-geologicheskiy institut.
(Prospecting--Geophysical methods)

7 TIMOFEEV, A.N.

PONOMAREV, V.N.

3(6,10); 9(6) PHASE I BOOK EXPLOITATION Sov/1924
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Akademiya nauk SSSR. Ural'skiy filial. Gorno-geologicheskiy institut.

Geofizicheskiy sbornik, no. 2. (Collected Papers on Geophysics, Nr. 2.)
Sverdlovsk, 1957. 207 p. Issued also as It's Trudy, vyp. 30.
Errata slip inserted. 2,400 copies printed.

Resp. Ed.: Yu.P. Bulashovich, Doctor of Physical and Mathematical
Sciences; Ed.: I.M. Demin; Tech. Ed.: L.A. Imodenova.

PURPOSE: This collection of articles is intended for field geo-
physicists and exploration party leaders.

COVERAGE: These articles discuss many new techniques and some theore-
tical considerations involved in gravitational, magnetic, seismic,
electrical and gamma radiation exploration methods. In 4 articles
V.N. Ponomarov discusses various aspects of magnetometry;
N.I. Khalavin - the study of elastic wave propagation; and
G.M. Voskoboinikov - gamma radiation. Extensive bibliographies
accompany each articles.

Card 1/5

Karsik, N.A., and V.A. Bugaylo. The Genetic Relationship of Magnitogorskii Granitoid Massif With the Kruitive Rocks of Basic Nature	173
Timofeev, A.N. Computations of the Interpretative Grids for Geophysical Surveys	178
Timofeev, A.N. Graphic Interpretation of Geophysical ANOMALIES by the Method of Tangents	189

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